























Criteria

The device must:

- Be able to be operated by my grandmother and others with severe arthritis by themselves.
- Be able to be used on lids of various sizes, such as pasta sauce lids and milk carton lids.
- Provide a way to open the most difficult of lids without forcing the user to use any more force than normal.
- Be small, portable, and inexpensive to be able to be used in different kitchens.



Hardware Prototypes

Arduino

- Mini vs Uno



Sensor Type

vs Tilt sensor











Educational Design Kit, a new type
hands-on, open-ended, multi-subj
kit for teachers to use to stimula
learning, teamwork, and creati
thinking in their classrooms.







win handle can roll wheel with
Limited Motor Control

- Square wheel can be modified
- Tape can be used to stabilize

Limited Physical Strength

- Materials are lightweight
- Does not require force
- Projects completed on tables
- Students can take breaks as t
up the periods of physical acti









Prototyping





Background
Research
Prototyping
Current Protot
Moving Forward



- Attachment methods
- Objectivist perspective
- Berke
- SF
- back from Max



- Bungee te
- Pulley adj
- Fasteners
- Sizing
- Collar dev
- Mounting
- Polycarb
- Cosmesis